

Invention TrackerEastman Kodak Company Restricted
Prepared For Patent Attorney

Status	Idea #	Docket #	Submitting Inventor	Title
Step 2 - IP Coordinator	OLD-1501	87196	Lelia Cosimbescu	Unsymmetrical anthracenes as blue host

✓ - denotes a required field

Step 1 - Inventor : Idea Submission

✓ Technology Cluster/Portfolio #: 10 - Hardcopy & Display

✓ IP Coordinator: OLD - Terrence O'Toole - Organic LED & Display

Idea #: OLD-1501

Idea Entry Date: 10/22/2003

Title: Unsymmetrical anthracenes as blue hosts

PPID or EWO #: (Charge #, i.e. 094-EWO-0704-07149)

✓ Submitting Inventor: Lelia Cosimbescu/487315/EKC

Submitting Inventors Division:

Other Kodak Inventors:

Other Inventors:

Is this idea entry originating in ☐ Yes ☒ No
Europe?:Are any inventors on this idea ☐ Yes ☒ No
Non-US Citizens:

✓ Earliest Date of Invention: (a)

Notebook No./Page No./Other:

Other (e.g., Technical Reports, Memos, Make Sheets, etc.)

Summary of Invention: Although TBADN, our currently used host for a blue or white device, has a good efficiency, further improvements in stability are necessary. The ADN structure space has not been fully investigated, especially testing the performance of analogs which do not have a t-Bu group attached on the anthracene, and that are unsymmetrical. It is desirable to have both groups on either side of the anthracene rather large /bulky to achieve best performance. Best performing analog of this class is 9-(4-biphenyl)-10-(2-biphenyl)anthracene. Its efficiency is comparable to that of TBADN with TBP (0.050 vs. 0.047W/A, 2.8 vs. 2.5cd/A), while the color is slightly greener than TBADN (.149, .211 vs. .144, .188). A significant improvement is observed in its stability (at 70C, 20mA), by as much as 1.5X (from T50 extrapolated data).